comprises hexagonal carbon layers each having a dimension in the planar direction that is smaller than the diameter of the carbon tube, as determined from a transmission electron microscope image.

3. (Twice Amended) Amorphous nano-scale carbon tubes according to claim 1, each of which has a 2θ band half-width of at least 7.0 degrees, as determined with a diffractomer by an X-ray diffraction method (incident X-ray: CuKα).

7. (Twice Amended) Amorphous non-scale carbon tubes according to claim 1, which are formed on a substrate, a particle or a porous material.

14. (Amended) The method for producing said carbon material containing the amorphous nano-scale tubes according to claim 13, wherein ~~the catalyst comprises a metal powder and/or a metal salt~~ is at least one member selected from the group consisting of alkaline earth metals, iron, cobalt, nickel, chromium and their salts.

Please add new claim 28 as follows:

28. (New) The amorphous nano-scale carbon tubes according to claim 1, each of which has an interlayer spacing (002) between hexagonal carbon layers of 3.9 to 4.7 Å, a diffraction angle (2θ) of 18.9 to 22.6 degrees, and a 2θ band half-width of 7.6 to 8.2 degrees, as determined with a diffractometer by an X-ray diffraction method (incident X-ray: CuKα).